

Atty. Dkt. No. 047911-0103

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Jianjun WANG et al.

Title: CARBON NANOSTRUCTURES AND METHODS OF
MAKING AND USING THE SAME

Appl. No.: 10/574,507

Filing Date: April 3, 2006

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.56

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 C.F.R. §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 C.F.R. §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 C.F.R. §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

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TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 C.F.R. §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

The relevance of the foreign-language document is described in the present specification. An English translation of the foreign-language document is not readily available. However, the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language document (37 C.F.R. §1.98 and MPEP §609).

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date September 5, 2006

By Richard C. Peet

FOLEY & LARDNER LLP
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Telephone: (202) 672-5483
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Richard C. Peet
Attorney for Applicant
Registration No. 35,792

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/574,507
Date Submitted: September 5, 2006 (use as many sheets as necessary)				Filing Date	April 3, 2006
Sheet	1	of	6	First Named Inventor	Jianjun WANG
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
				Attorney Docket Number	
				047911-0103	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
/E.M./	A1	2003/0175462	A1	NISHINO et al.	09-18-2003	
/E.M./	A2	5,372,686	A	TIMBERLAKE et al.	12-13-1994	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
/E.M./	A3	AFFOUNE et al., "Experimental evidence of a single nano-graphene," J. Chem. Lett., 2001, Vol. 348, pp. 17-20.	
/E.M./	A4	AIZAWA et al., "Bond softening in monolayer graphite formed on transition-metal carbide surfaces," Phys. Rev. B, 1990, Vol. 42, pp. 11469-11478.	
/E.M./	A5	AL-JISHI et al., Phys. Rev. B., 1982, Vol. 26, pp. 4514-4522.	
/E.M./	A6	ANDERSSON et al., "Structure and electronic properties of graphite nanoparticles," Phys. Rev. B., 1998, Vol. 58, pp. 16387-16385.	
/E.M./	A7	ANDO et al., "Preparation of carbon nanotubes by arc-discharge evaporation," Japanese Journal of Applied Physics, Part 2: Letters, 1993, Vol. 32, pp. L107-L109.	
	A8	ANDO et al., "Production of petal-like graphite sheets by hydrogen arc discharge," Carbon, 1997, Vol. 35, pp. 153-158.	
/E.M./	A9	BAUGHMAN et al., Science, 2002, Vol. 297, pp. 787-	
/E.M./	A10	BONARD et al., Solid-State Electron., 2001, Vol. 45, pp. 893-	
/E.M./	A11	CHEN et al., "Exfoliation of graphite flake and its nanocomposites," Carbon, 2003, Vol. 41, pp. 619-621.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10574507	
Date Submitted: September 5, 2006 (use as many sheets as necessary)				Filing Date	April 3, 2006	
Sheet	2	of	6	First Named Inventor	Jianjun WANG	
				Group Art Unit	Unassigned	
				Examiner Name	Unassigned	
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/E.M./	A12	CHEN et al., "Preparation and characterization of graphite nanosheets from ultrasonic powdering technique," Carbon, 2004, Vol. 42, pp. 753-759.	
/E.M./	A13	CHEN et al., "Preparation of polystyrene/graphite nanosheet composite," Polymer, 2003, Vol. 44, pp. 1781-1784.	
/E.M./	A14	CHUNG et al., Diamond and Related Materials, 2001, Vol. 10, pp. 248-250	
/E.M./	A15	DECKMAN et al., Appl. Phys. Lett., 1982, Vol. 41, pp. 377-379	
/E.M./	A16	DECKMAN et al., J. Vac. Sci. Technol. B, 1983, Vol. 1, pp. 1109-1112	
/E.M./	A17	DECKMAN et al., J. Vac. Sci. Technol. B, 1988, Vol. 6, pp. 333-336	
/E.M./	A18	DRESSELHAUS et al., Adv. Phys., 2000, Vol. 49, pp. 705-814	
/E.M./	A19	EBBESEN et al., "Large-scale synthesis of carbon nanotubes," Nature, 1992, Vol. 358, pp. 220-222.	
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/E.M./	A22	GRÖNING et al., Solid-State Electron, 2001, Vol. 45, pp. 929-944	
/E.M./	A23	HASS, K.C., Phys. Rev. B., 1992, Vol. 46, pp. 139-150.	
/E.M./	A24	HOLLOWAY, Brian C., "Carbon Nanostructures – New Morphologies of an Old Element," BCHPNNL Presentation, June 14, 2004, 43 pgs.	

Examiner Signature	/Eli Mekhlin/	Date Considered	08/06/2009
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/E.M./	A25	HUANG et al., "Growth of large periodic arrays of carbon nanotubes," Appl. Phys. Lett., January 20, 2003, Vol. 82, No. 3, pp. 460-462.	
/E.M./	A26	HULTEEN et al., J. Phys. Chem. B, 1999, Vol. 103, pp. 3854-3863	
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/E.M./	A33	KUSAKABE et al., Phys. Rev. B: Condensed Matter and Materials Physics, 2003, Vol. 67, pp. 092406 (abstract).	
/E.M./	A34	LESPADE et al., "Model for raman scattering from incompletely graphitized carbons," Carbon, 1982, Vol. 20, pp. 427-431 (abstract).	
/E.M./	A35	LIEBERMAN et al., Principles of plasma discharges and materials processing, New York, Wiley, 1994, pp. 387-411.	
/E.M./	A36	LIM et al., J. Non-Cryst. Solids, 2002, Vol. 284, pp. 299-302.	
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10574507-GAU: 1793
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/E.M./	A38	MICHAELSON, H.B., J. Appl. Phys., 1949, Vol. 21, pp. 536-540	
/E.M./	A39	MILNE et al., Diamond Relat. Mater., 2001, Vol. 10, pp. 260-264	
/E.M./	A40	NAKADA et al., "Edge state in grapheme ribbons: nanometer size effect and edge shape dependence," Phys. Rev. B, 1996, Vol. 54, pp. 17954-17961.	
/E.M./	A41	NEMANICH et al., "First- and second-order Raman scattering from finite-size crystals of graphite," Phys. Rev. B, 1979, Vol. 20, pp. 392-401.	
/E.M./	A42	NEMANICH et al., Mater. Sci. Eng., 1977, Vol. 31, pp. 157-160.	
/E.M./	A43	NICKLOW et al., "Lattice dynamics of pyrolytic graphite," Phys. Rev. B., 1972, Vol. 3, No. 5, pp. 4951-4962.	
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/E.M./	A46	OSHIMA et al., "Surface phonon dispersion curves of graphite (0001) over the entire energy region," Solid State Comm., 1988, Vol. 65, pp. 1601-1604 (abstract).	
/E.M./	A47	OSHIYAMA et al., "Prediction of electronic properties of carbon-based nanostructures," Physica B, 2002, Vol. 323, pp. 21-29.	
/E.M./	A48	PAILLARD et al., Phys. Rev. B, 1994, Vol. 49, pp. 11433-11439.	
/E.M./	A49	PARK et al., J. Vac. Sci. Technol. B, 2003, Vol. 21, pp. 562-566.	
/E.M./	A50	PEIGNEY et al., "Specific surface area of carbon nanotubes and bundles of carbon nanotubes," Carbon, 2001, Vol. 39, pp. 507-514.	

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/E.M./	A51	PFEIFFER et al., Appl. Phys. Lett., 2003, Vol. 82, pp. 4149-4150.	
/E.M./	A52	PRASAD et al., "Heat-treatment effect on the nanosized graphite [π]-electron system during diamond to graphite conversion," Phys. Rev. B., 2000, Vol. 62, pp. 11209-11218.	
/E.M./	A53	PRAWER et al., Chem. Phys. Lett., 2000, Vol. 332, pp. 93-97.	
/E.M./	A54	RAO et al., Science, 1997, Vol. 275, pp. 187-191.	
/E.M./	A55	RARAVIKAR et al., Phys. Rev. B, 2002, Vol. 66, pp. 234424/1-234424/9.	
/E.M./	A56	ROBERTSON, J., J. Vac. Sci. Technol. B, 1995, Vol. 17, pp. 659-665.	
/E.M./	A57	SAITO, Y., J. Nanosci. Nanotechnol., 2003, Vol. 3, pp. 39-50.	
/E.M./	A58	SHANG et al., "Uniform carbon nanoflake films and their field emissions," J. Chem. Lett., 2002, Vol. 358, pp. 187-191.	
/E.M./	A59	SOLIN, S.A., Physica B&C, 1980, Vol. 99, pp. 443-452 (abstract).	
/E.M./	A60	TUINSTRA et al., "Raman spectrum of graphite," J. Chem. Phys., 1970, Vol. 53, pp. 1126-1130.	
/E.M./	A61	VICULIS et al., "A chemical route to carbon nanoscrolls," Science, 2003, Vol. 299, p. 1361.	
/E.M./	A62	WAKABAYASHI et al., "Electronic and magnetic properties of nanographite ribbons," Phys. Rev. B, 1999, Vol. 59, pp. 8271-8282.	
/E.M./	A63	WANG et al., "Free-standing subnanometer graphite sheets," Applied Physics Letters, August 16, 2004, Vol. 85, No. 7, pp. 1265-1267.	

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/E.M./	A64	WANG et al., "Synthesis and field-emission testing of carbon nanoflake edge emitters," J. Vac. Sci. Technol. B, May/June 2004, Vol. 22, No. 3, pp. 1269-1272.	
/E.M./	A65	WANG et al., "Synthesis of carbon nanosheets by inductively coupled radio-frequency plasma enhanced chemical vapor deposition," Carbon, 2004, pp. 1-6.	
/E.M./	A66	WINZER et al., Appl. Phys. A: Mater. Sci. Process., 1996, Vol. 63, pp. 617-619 (abstract).	
/E.M./	A67	WU et al., "Carbon nanowalls and related materials," Journal of Materials Chemistry, 2004, Vol. 14, pp. 469-477.	
/E.M./	A68	WU et al., "Carbon Nanowalls Grown by Microwave Plasma Enhanced Chemical Vapor Deposition," Advanced Materials, January 4, 2002, pp. 64-67.	
/E.M./	A69	YUE et al., Appl. Phys. Lett. 2002, Vol. 81, No. 2, pp. 355-357.	
/E.M./	A70	ZHU et al., "Nitrogen Doped Carbon Nanoflakes Synthesized by RFI PECVD on Patterned Nickel Catalyst Layer," 2003 Poster, AVS 03 Baltimore, MD, 1 page.	
/E.M./	A71	ZHU et al., Appl. Phys. Lett., 1999, Vol. 75, pp. 873-875.	
/E.M./	A72	ZHU et al., Science, 1998, Vol. 282, pp. 1471-1473.	
/E.M./	A73	ZHU et al., Solid-State Electron., 2001, Vol. 45, pp. 921-928.	

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